

Solar Charge and Light Controller

SolarBOT-PWM Series is especially designed for photovoltaic (PV) lighting systems requiring low-battery disconnect and low self-consumption. This unique, efficient design ensures excellent safety, reliability and durability.



Benefits

- High reliability and durability
- Precise lighting control
- Efficient PWM battery charging
- Easy installation and usability
- Excellent circuit protection
- Long life time guarantee
- Intuitive LED design

Application

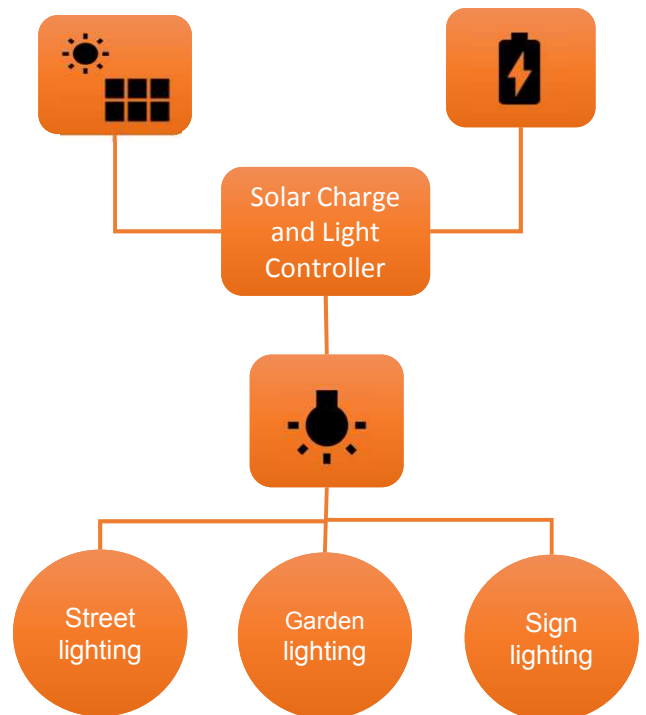
- Street lights, Pathway lights
- Bus station lights, Security lights
- Garden lights, Road signs, Sidewalk signs
- Commercial signs, Hazard signs

Suitable for all solar lights at landscape, park, camping area, rest area, nature reserves, etc.

Features

- Low self-consumption : 5mA for 12V, 6mA for 24V
- Epoxy encapsulation molding
- Day and night detection by self PV array input
- 10 modes of lighting time setting
- Setpoint accuracy 35 mV
- Safety design of rated 25% overload
- Parallel charge up to 40 amps
- 30A terminal blocks with wide intervals
- Two LED indications: Charge status, LVD
- Efficient anodizing aluminum heat sink patent design
- Electronic protection : reverse PV input, LVD, overcharge, short circuit/overload (fuse).

5 Years
Warranty !



Lighting Time Setting Options

	SUNSET	NIGHT	SUNRISE	DAY
OFF				
2: 2 HOURS ON				
4: 4 HOURS ON				
6: 6 HOURS ON				
8: 8 HOURS ON				
10: 10 HOURS ON				
12: 12 HOURS ON				
14: 14 HOURS ON				
D/D: from DUSK to DAWN ON				
ON : ON				

Electrical Specifications

	12V	24V
Rated Solar Input	20A	20A
Rated Load	20A	20A
Max. Array Voltage	30V	50V
25% Current Overload	5min	5min
Regulation Voltage:		
Sealed Battery	14.1V	28.2V
LVD	11.7V	23.2V
LVD Reconnect level	12.8V	25.4V
Temp. Comp. (mV/°C)	-27	-54
Self-consumption	5mA	6mA
Operating Temp. Range	-40 to +85 °C	

Model Selections

	1	2	3	12V	24V
SolarBOT-S12V20A-PWM		20A	20A	●	
SolarBOT-S24V20A-PWM		20A	20A		●

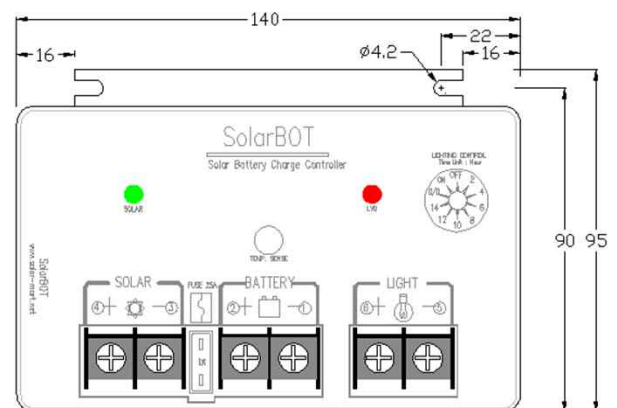
1 : Model number 2: Solar rating(Amps)

3 : Load rating(Amps)

* All products are LVD and time adjustable

Mechanical Specifications

- Wire size : #10 AWG (5.2 mm²)
- Dimensions : 140 x 95 x 40 (L x W x H : mm)
- Plastic case & aluminum heat sink
- Epoxy encapsulation molding
- Weight : 0.3kg



IIAN TECH CO.,LTD.